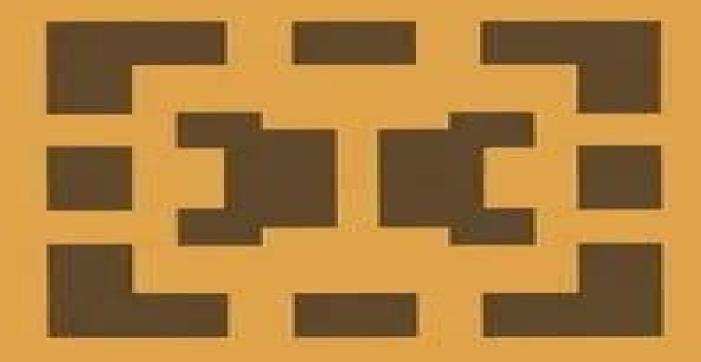
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V. Korolyuk and A. Swishchuk

Semi-Markov Random Evolutions



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Semi Markov Random Evolutions

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detailed description available for Exploring Stochastic Laws Asymptotic Expansion of Semi-Markov Random **Evolutions** Sergio Albeverio, Volodymyr S. Koroljuk, Igor V. Samoilenko, 2006 Limit Theorems for Randomly Stopped Stochastic Processes Dmitrii S. Silvestrov, 2012-12-06 Limit theorems for stochastic processes are an important part of probability theory and mathematical statistics and one model that has attracted the attention of many researchers working in the area is that of limit theorems for randomly stopped stochastic processes. This volume is the first to present a state of the art overview of this field with many of the results published for the first time It covers the general conditions as well as the basic applications of the theory and it covers and demystifies the vast and technically demanding Russian literature in detail A survey of the literature and an extended bibliography of works in the area are also provided The coverage is thorough streamlined and arranged according to difficulty for use as an upper level text if required It is an essential reference for theoretical and applied researchers in the fields of probability and statistics that will contribute to the continuing extensive studies in the area andremain relevant for years to come **Random Motions in Markov and Semi-Markov Random Environments 1** Anatoliy Pogorui, Anatoliy Swishchuk, Ramon M. Rodriguez-Dagnino, 2020-12-31 This book is the first of two volumes on random motions in Markov and semi Markov random environments This first volume focuses on homogenous random motions This volume consists of two parts the first describing the basic concepts and methods that have been developed for random evolutions. These methods are the foundational tools used in both volumes and this description includes many results in potential operators Some techniques to find closed form expressions in relevant applications are also presented The second part deals with asymptotic results and presents a variety of applications including random motion with different types of boundaries the reliability of storage systems and solutions of partial differential equations with constant coefficients using commutative algebra techniques It also presents an alternative formulation to the Black Scholes formula in finance fading evolutions and telegraph processes including jump telegraph processes and the estimation of the number of level crossings for telegraph processes Perturbed Semi-Markov Type Processes II Dmitrii Silvestrov, 2022-03-21 This book is the second volume of a two volume monograph devoted to the study of limit and ergodic theorems for regularly and singularly perturbed Markov chains semi Markov processes and multi alternating regenerative processes with semi Markov modulation The second volume presents a complete classification of ergodic theorems for alternating regenerative processes including more than twenty five such theorems. The text addresses new asymptotic recurrent algorithms of phase space reduction for multi alternating regenerative processes modulating by regularly and singularly perturbed finite semi Markov processes It also features a new study of super long long and short time ergodic theorems for these processes The book also contains a comprehensive bibliography of major works in the field It provides an effective reference for both graduate students as well as theoretical and applied researchers studying stochastic processes and their applications

Semi-Markov Models and Applications Jacques Janssen, Nikolaos Limnios, 2013-12-01 This book presents a selection

of papers presented to the Second International Symposium on Semi Markov Models Theory and Applications held in Complegne France in December 1998 This international meeting had the same aim as the first one held in Brussels in 1984 to make fourteen years later the state of the art in the field of semi Markov processes and their applications bring together researchers in this field and also to stimulate fruitful discussions. The set of the subjects of the papers presented in Compiegne has a lot of similarities with the preceding Symposium this shows that the main fields of semi Markov processes are now well established particularly for basic applications in Reliability and Maintenance Biomedicine Queue ing Control processes and production A growing field is the one of insurance and finance but this is not really a surprising fact as the problem of pricing derivative products represents now a crucial problem in economics and finance For example stochastic models can be applied to financial and insur ance models as we have to evaluate the uncertainty of the future market behavior in order firstly to propose different measures for important risks such as the interest risk the risk of default or the risk of catas trophe and secondly to describe how to act in order to optimize the situation in time Recently the concept of VaR Value at Risk was discovered in portfolio theory enlarging so the fundamental model of Markowitz Data-Driven Modeling for Sustainable Engineering Kondo H. Adjallah, Babiga Birregah, Henry Fonbeyin Abanda, 2019-06-21 This book gathers the proceedings of the 1st International Conference on Engineering Applied Sciences and System Modeling ICEASSM a four day event 18th 21st April 2017 held in Accra Ghana It focuses on research work promoting a better understanding of engineering problems through applied sciences and modeling and on solutions generated in an African setting but with relevance to the world as a whole The book provides a holistic overview of challenges facing Africa and addresses various areas from research and development perspectives Presenting contributions by scientists engineers and experts hailing from a host of international institutions the book offers original approaches and technological solutions to help solve real world problems through research and knowledge sharing Further it explores promising opportunities for collaborative research on issues of scientific economic and social development making it of interest to researchers scientists and practitioners looking to conduct research in disciplines such as water supply control civil engineering statistical modeling renewable energy and Matrix-Analytic Methods in Stochastic Models S. Chakravarthy, Attahiru S. sustainable urban development Alfa,2016-04-19 Based on the proceedings of the first International Conference on Matrix Analytic Methods MAM in Stochastic Models held in Flint Michigan this book presents a general working knowledge of MAM through tutorial articles and application papers It furnishes information on MAM studies carried out in the former Soviet Union **Probability** Theory and Mathematical Statistics. Vol. 2 B. Grigelionis, Yu. V. Prohorov, V. V. Sazonov, V. Statulevičius, 2020-05-18 No. detailed description available for PROB TH MATH ST GRIGELIONIS VOL 2 PROC 5 1989 E BOOK **Ouasi-Stationary** Phenomena in Nonlinearly Perturbed Stochastic Systems Mats Gyllenberg, Dmitrii S. Silvestrov, 2008-10-31 The book is devoted to studies of quasi stationary phenomena in nonlinearly perturbed stochastic systems New methods of asymptotic

analysis for nonlinearly perturbed stochastic processes based on new types of asymptotic expansions for perturbed renewal equation and recurrence algorithms for construction of asymptotic expansions for Markov type processes with absorption are presented Asymptotic expansions are given in mixed ergodic for processes and large deviation theorems for absorption times for nonlinearly perturbed regenerative processes semi Markov processes and Markov chains Applications to analysis of quasi stationary phenomena in nonlinearly perturbed queueing systems population dynamics and epidemic models and for risk processes are presented The book also contains an extended bibliography of works in the area It is an essential reference for theoretical and applied researchers in the field of stochastic processes and their applications and may be also useful for doctoral and advanced undergraduate students Stochastic Systems in Merging Phase Space Vladimir Semenovich Koroli?uk, Nikolaos Limnios, 2005 This book provides recent results on the stochastic approximation of systems by weak convergence techniques General and particular schemes of proofs for average diffusion and Poisson approximations of stochastic systems are presented allowing one to simplify complex systems and obtain numerically tractable models The systems discussed in the book include stochastic additive functionals dynamical systems stochastic integral functionals increment processes and impulsive processes All these systems are switched by Markov and semi Markov processes whose phase space is considered in asymptotic split and merging schemes Most of the results from semi Markov processes are new and presented for the first time in this book

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